



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 07 ATEX 1057 X



(4) Equipment: Three-phase asynchronous motor,
1MJ7 22.-..., 1MJ7 25.-..., 1MJ7 28.-...

(5) Manufacturer: Siemens AG, Automation and Drives Standard Drives

(6) Address: 91056 Erlangen, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 07-17277.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006

EN 60079-1:2004

EN 60079-7:2003

EN 61241-0:2006

EN 61241-1:2004

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2 G Ex d IIC T1 - T4 respectively Ex de IIC T1 -T4 respectively



II 2 D Ex tb A21 IP65 T XXX °C

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. M. Thedens
Oberregierungsrat



Braunschweig, January 16, 2008

sheet 1/3

SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 1057 X**

(15) Description of equipment

The motors of types 1MJ722.-... , 1MJ725.-... and 1MJ728.-... , sizes 225, 250 and 280, consist of an enclosure made from grey cast iron. The shaft rotates in rolling bearings. Together with the end shields, the shaft forms a flameproof joint at the drive and the non-drive ends. Connection is by means of terminal boxes 1XC3 32. or 1XC3 42. , designed to Flameproof Enclosure "d" type of protection, or by means of terminal boxes 1XC1 38. , 1XC1 39. , 1XC1 312 or 1XC1 48. , designed to Increased Safety "e" type of protection. The auxiliary terminal box 1XB 3020 may optionally be fitted to the terminal boxes of Increased Safety "e" type of protection. Separately certified cable entry fittings provide for power input.

The electric motor data, incl. specifications safeguarding compliance with the temperature class, are defined in a data sheet attached to the EC type-examination certificate. The data sheets of EC Type Examination Certificate PTB 03 ATEX 1034 are also considered to be data sheets of the present EC Type Examination Certificate.

The maximum permissible ambient temperature range is: -20 °C to 60 °C. This temperature range can be restricted by the terminal boxes or components selected or by the data sheet specifying the electrical design.

For "D" areas (areas with inflammable dust), the machine with its terminal compartment is designed to "td" Protection by Enclosure type of protection. For the "D" area, the shaft is provided with sealing rings, which ensure that the IP degree of protection is maintained.

Additional, separately certified components (rotary pulse generator, bearing thermometer, fan drive motor, etc.) may also be used.

(16) Test report PTB Ex 07-17277

(17) Special conditions for safe use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN 60079-1.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 1057 X

Additional notes for safe operation

Any components attached or installed (terminal compartments, bushings, cable entry fittings, connectors) have to be of a technical standard that complies with the specifications on the cover sheet, and they must be covered by a separate examination certificate. The special conditions specified for the components must be complied with, and the components may have to be included in the type test.

Monitoring devices must satisfy the requirements in Directives 94/9/EC and EN 1127-1.

If the three-phase motor is cooled by a separately driven fan, adequate measures must be taken to ensure that the motor can only be operated with the separately driven fan switched on.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. M. Thedens
Oberregierungsrat



Braunschweig, January 16, 2008

Manufacturer: Siemens AG, Automation and Drives Standard Drives
91056 Erlangen, Germany

for the three-phase asynchronous motors of type series 1MJ722.-...

Electrical data

The motors of type series 1MJ722.-... of Siemens AG, 91056-Erlangen, are produced for the following maximum ratings:

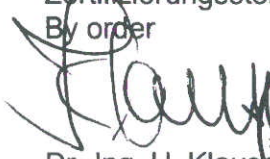
	Mains operation	Converter operation	
Voltage:	200 - 690	200 - 690	V
Power:	52	52	kW
Frequency:	50 / 60	5 - 200	Hz
Duty type:	S1 - S9	S1 - S9	

For each motor design, compliance with the governing regulations shall be verified in the form of a type test. Due regard shall in this connection be given to the code of practice "Merkblatt für die elektrische Auslegung und Prüfung von Motoren in der Zündschutzart Druckfeste Kapselung im Rahmen der EG-Baumusterprüfbescheinigung".

The motors may be employed only for the type of duty, and under the ambient conditions, for which they were type tested. This includes frequency converter operation.

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, July 03, 2003


Dr.-Ing. U. Klaus
Regierungsdirektor



Manufacturer: Siemens AG, Automation and Drives Standard Drives
91056 Erlangen, Germany

for the three-phase asynchronous motors of type series 1MJ725.-...

Electrical data

The motors of type series 1MJ725.-... of Siemens AG, 91056-Erlangen, are produced for the following maximum ratings:

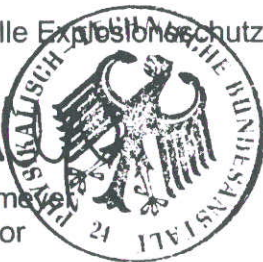
	Mains operation	Converter operation	
Voltage:	200 - 1000	200 - 690	V
Power:	63	63	kW
Frequency:	50 / 60	5 - 200	Hz
Duty type:	S1 - S9	S1 - S9	

For each motor design, compliance with the governing regulations shall be verified in the form of a type test. Due regard shall in this connection be given to the code of practice "Merkblatt für die elektrische Auslegung und Prüfung von Motoren in der Zündschutzart Druckfeste Kapselung im Rahmen der EG-Baumusterprüfbescheinigung".

The motors may be employed only for the type of duty and under the ambient conditions for which they were type tested. This includes frequency converter operation.

Zertifizierungsstelle Explosionschutz
By order

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, July 03, 2003

Manufacturer: Siemens AG, Automation and Drives Standard Drives
91056 Erlangen, Germany

for the three-phase asynchronous motors of type series 1MJ728.-...

Electrical data

The motors of type series 1MJ728.-... of Siemens AG, 91056-Erlangen, are produced for the following maximum ratings:

	Mains operation	Converter operation	
Voltage:	200 - 1000	200 - 690	V
Power:	104	104	kW
Frequency:	50 / 60	5 - 200	Hz
Duty type:	S1 - S9	S1 - S9	

For each motor design, compliance with the governing regulations shall be verified in the form of a type test. Due regard shall in this connection be given to the code of practice "Merkblatt für die elektrische Auslegung und Prüfung von Motoren in der Zündschutzart Druckfeste Kapselung im Rahmen der EG-Baumusterprüfbescheinigung".

The motors may be employed only for the type of duty and under the ambient conditions for which they were type tested. This includes frequency converter operation.

Zertifizierungsstelle Explosionschutz

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Dr.-Ing. U. Klausmeyer
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Braunschweig, July 03, 2003